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(74) Agent: ITOH, Tadahiko; 32nd floor, Yesibu Garden Place Tower, 20-3, Ebisu 4-chome, Shibuya-ku, Tokyo 150-6032 (JP).

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(71) Applicant (for all designated States except US): RICOH COMPANY, LTD. [JP/JP]; 3-6, Nakamagome 1-chome, Ohta-ku, Tokyo, 1438555 (JP).

(72) Inventor; and

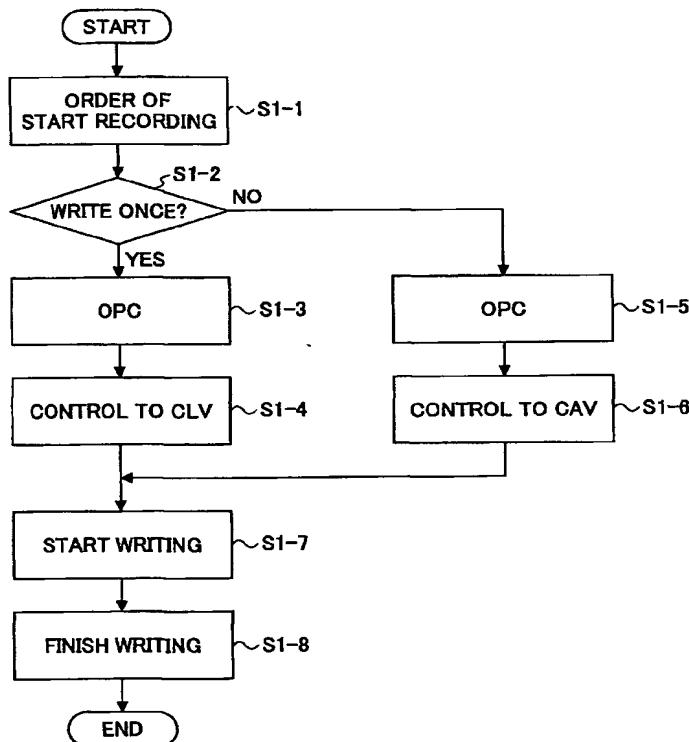
(75) Inventor/Applicant (for US only): NAGAMURA, Aritsune [JP/JP]; 34-20, Chigusadai, Aoba-ku, Yokohama-shi, Kanagawa, 2270051 (JP).

[Continued on next page]

(54) Title: OPTICAL DISK RECORDING METHOD AND OPTICAL DISK RECORDING AND READING APPARATUS



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(57) Abstract: An optical disk recording method on the write-once or re-writable optical medium comprising the steps of: identifying the media as write-once or re-writable; performing optimal power calibration procedure in the power calibration area of the disk; and switching to the constant linear velocity control during writing data to the write-once disk; or switching to constant angular velocity control in case of writing to the re-writable medium. The power of the light beam during the writing procedure is set according to the calculations received in the power calibration procedure. In another embodiment, after sensing the write-once medium, if the recording data takes place in the location which is not the most inner radial location of the disk, the method of recording data checks whether the radial distance between the location where recording is going to place and the most inner data recording location on the disk is less than a half of the distance between the most distant and most inner radial locations of the disk, and then on a base of the result the CAV or CLV of control is applied to control the spin of the disk during recording data on the write-once medium.



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